SELVA Meeting 09/02/2014

Attendees: Jerzy Nogiec, Sergey Kotelnikov, Andrzej Makulski , Kelley Trombly-Freytag, Dana Walbridge

• Project Status

- **The highest priority: preparations for the winding test.**
- Test will probably be next Tues, 9/9
- Test checklist updated
    - Add: move monitor to other end of table, position sideways, not back, to system: Dana
    - Add: button for stop deceleration
    - Concentrate on Boom items
- Devise emergency stop cord, along the mandrel on both sides- Dana working with Fred and Terry

• Meeting Topics

1) Action items from the previous week
2) Status of the preparations for the winding test
3) The short term safety system modifications
4) Status of requisitions
5) Safety, ideas, comments, etc. (all)

• Safety

- Everybody make sure to sign the modified HA in IB3.

• Problems
- Requisitions were delayed.

• Action Items

Jim Rife, Rick Smith, etc.

Fred Nobrega

Fred Lewis

	Switch over to the new ETS system	Planned for 09/06/14	7/29/2014
	Work on 2nd interface board, which will be the production model		7/15/2014
	Order UPS		8/26/14
	Order missing phase detector		8/26/14

Lidija

	Reinstall winch	cancelled	7/15/2014

Andrzej

	Add comments to the FPGA I/O test program	Describe all I/O channels In progress 7/15	7/1/2014
	Coordinating adjusting speed and offset for all motors	Investigate the control of acceleration and speed for bridge.	7/15/2014
	Work on adjusting the tension driver	Test the possibility to adjust the integration term in the driver personality card for tension	8/5/2014
	Review electrical drawings		8/19/14
	Test load cell power stabilizer		8/26/14
	Test modified driver		8/26/14
	Propose cables tension relief solution		8/26/14

Jerzy

Roger

	Document reel up/down algorithm	In progress	7/23/2014
	Test motion control of the tension motor.	Re-assigned	6/3/2014

Sergey

	Create note on naming conventions on I/O channels	In progress	4/29/2014
	Put reel program into FPGA		8/26/14
	Test the reel program		8/26/14
	Review Mandrel Test Plan		7/8/14

█	Work on boom calibration and motion limits		8/26/14

Dana

█	Work on replacement collision sensors for the boom.	Contact the supplier and discuss our needs.	7/29/14
█	Install new tubing	Dana will install tubing on the boom, starting on Friday if he is here. Postponed 8/5/14 until the decision to buy new bumper sensors is made. suspended	7/15/2014
█	Mandrel test plan	7/15: waiting on Sergey	6/10/14
█	Level Mandrel	Check if we need another surface	8/5/2014

Kelley

█	Get a spreadsheet of the results of testing I/O signals.	Put in SELVA wiki All I/O signals not yet defined - doc not complete	Suspended 5/20/2014

Everyone

█	Document: Machine Start checklist	Needs input from Andrzej	7/15/2014
█	Document: Interlock list	Needs review	7/15/2014
█	Document: Permissives	Needs review	7/15/2014

- ## Completed Action Items

█	Sergey	Work on synchronizing the mandrel and bridge motors		8/26/14
█	Sergey	Implement the new tension control algorithm		8/26/14
█	Sergey	Add the reel and tension motor control to the motor test and PID tuning program.	Separate test program	8/26/14
█	Jerzy	Tension control	Investigate a fuzzy logic control for tension – suspended 8/19/14 – investigate the feed forward and torque based control	8/26/14
█	Andrzej	Try to repair the draft card		8/26/14
█	Fred	Install the load cells power stabilizer circuit		8/26/14

	Fred	Review the requisition for a new driver – get the newest version they have of 242	7/15: back in queue after driver hold	8/26/14
	Fred	Ensure we have replacement encoders for future use	7/15 Will be ordered: an X drive a/e	8/26/14
	Rick	Lower the Bridge to the tracks/rails.		8/20/14
	Jerzy	Create a model of the tension		8/26/14